CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

No. : CTCE/BBMP/PMC/B-D/2018-19/35

Date:13.05.2019

To,
Executive Engineer,
Byatarayanapura Division,
Bruhat Bangalore Mahanagara Palike
Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : BBMP/EE/BTP/WO/160/2018-19 Date: 31.10.2018

Name of work: "Consultancy services for Construction Supervision, Project Management and quality assurance for the works in ward No.07 and 08 (Number of works-45)"

Sub Name of Work: Providing new pipeline and repairs to existing pipelines in Ward No.07,Kodigehalli Sub Division, BBMP, Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the **1st and Final bill**

Sl. No	Description of Work	Unit	Qty
1	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed inculding barricading, danger lighting etc., in the Asphalt surface road.(P-264, It-37.38)	Cum	26.10
2	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed inculding barricading, danger lighting etc., in the cement Concrete road.(P-257, It-37.40)	Cum	39.15
3	KSRB 2-2.2 Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff levelled and neatly dressed,disposed (Pg.No.142.item No.19.1 of PW, P&IWTD SR 2016-17)	Cum	156.60
4	Providing and fixing chorinated poly venyl chloride (CPVC) pipes confirming to 15778, having thermal stability for hot and cold water supply inculding all CPVC plain and brass treaded fittings inculding fixing the pipe with clamp at 1.00m spacing.this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints cornplete (Inertnal work exposed on wall) PRED SR 2016-17 (P-231,Item No.15mm nominal OD Pipe) 63mm dia of 6Kg/cm2	Rmt	1160.00
5	KSRB 2.4: Refilling availabe earth around the pie lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m inculding cost of all labour complet as per specifications. (PRED SR 2016-17, P-155, Item No.2.11)	Cum	104.40

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

Sl. No	Description of Work	Unit	Qty
6	KSRRB M100-1 loading and unloading of stone boulder/stone aggregates/sand/kanker/moorum. KSRRB M100-1. placing tipper at loading point,loading with front end loader,dumping turning for retune trip, excluding time for haulage and return trip complete as per specification MORTH chapter 1(P-144&150 It.No.17.1)	Rmt	221.85
7	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57cum, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. specification No.KBS 4.1, 4.2 (P.NO.12 ,It 4.3)	Cum	78.30
8	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.43cum, with superplastisiser @3lts confirrming to IS 9103-199 15cms. thick well compacted,in foundation,plinth and cills, inculding cost of all materials, lobour, HOM of machinary,curing complete as per specification No. KBS 4.1, 4.2 (P.NO.12 ,It 4.5)	Cum	52.20
9	KSRB 13-62.2: Providing and fixing in postion brass stop cock of approved quality 20mm nominal bore inculding cost of all materials labour and HOM of equipments with all leads complete as per specifcations. Specification No.KBS 13.2.2/13.3 (P91, It.No.13.27)	No's	20.00
10	KSRB 13-6.3-7: Providing and fixing in position brass gate vale with C.I wheel of approved quality (screwed end) 65mm nominal bore inculding cost of all materials,labour and HOM of equipments with all leads complete as per specifcations. Specification No.KBS 13.2.6/13.3	No's	20.00

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

13/5/2019

Authorized Signature

M.D

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/CEMENT/2018-19

Date: 02.01.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagara, Bangalore – 560 032.
*** Name of Work**	:	Providing new pipeline and repairs to existing pipelines in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
*** Sample ID**	:	Cement
Sample Received on	:	01.01.2019
Period of Testing	:	01.01.2019 to 02.01.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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****

Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
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AE(Ist)

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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/SAND-Gradation/2018-19 02.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
*** Name of Work**	:	Providing new pipeline and repairs to existing pipelines in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	01.01.2019
Date of Testing	:	02.01.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	77.60	60-95	75-100	85-100	95-100
1.18	58.30	30-70	55-90	75-100	90-100
600 Micron	39.10	15-34	35-59	60-79	80-100
300 Micron	21.10	5-20	8-30	12-40	15-50
150 Micron	8.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/AGG/GR/2018-19 02.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
* Name of Work	:	Providing new pipeline and repairs to existing pipelines in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	01.01.2019
Date of Testing	:	02.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.88	95-100	85-100
20	37.08	30-70	0-20
10	15.18	10-35	0-5
4.75	1.88	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/AGG/GR/2018-19 02.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
* Name of Work	:	Providing new pipeline and repairs to existing pipelines in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	01.01.2019
Date of Testing	:	02.01.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.64	95-100	85-100
10	38.38	25-55	0-20
4.75	5.38	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Ashlly. N.D
AE(Lab)

****

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P.
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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/Cube/2018-19 20.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
* Name of the work	:	Providing new pipeline and repairs to existing pipelines in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2019	20.02.2019	8.174	475.8	21.15
2	23.01.2019	20.02.2019	8.269	485.9	21.60
3	23.01.2019	20.02.2019	8.352	516.3	22.95

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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/Cube/2018-19 20.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
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* Reference	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2019	20.02.2019	8.264	502.4	22.33
2	23.01.2019	20.02.2019	8.159	532.4	23.66
3	23.01.2019	20.02.2019	8.382	534.9	23.77

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Ashly N.D
AE(Trg)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Pooja K.L.
M/s. Civil-Tech Consultants & Engineers
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/160/2018-19 Dated: 31.10.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2019	20.02.2019	8.362	488.3	21.70
2	23.01.2019	20.02.2019	8.274	498.6	22.16
3	23.01.2019	20.02.2019	8.413	513.8	22.84

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M/s. Civil-Tech Consultants & Engineers
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AE(L-1)

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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/Cube/2018-19 20.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
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* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2019	20.02.2019	8.126	510.3	22.68
2	23.01.2019	20.02.2019	8.294	524.6	23.32
3	23.01.2019	20.02.2019	8.372	532.6	23.67

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Asst. Exe. Engr.
DE(WT)

Assistant Executive Engineer
Kodigehalli Sub Division
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Job No.: CTCE/BBMP/VV/W.No.07/CSR-01/843c/Cube/2018-19 20.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Venkatesh,** No.969, 7th Cross, Chowdaiah Block, Opposite Siddartha Public School, R.T. Nagar, Bangalore – 560 032.
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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2019	20.02.2019	8.369	515.4	22.91
2	23.01.2019	20.02.2019	8.258	532.4	23.66
3	23.01.2019	20.02.2019	8.174	502.8	22.35

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